

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25584

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C02F 1/70

US CL : 210/747, 458, 808; 405/128.5; 502/8; 75/953

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 210/747, 458, 808; 405/128.5; 502/8; 75/953

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,207,114 B1 (QUINN et al) 27 March 2001 (27.03.2001), see the entire document.	1-17
A	US 5,543,059 A (HOWSON et al) 08 August 1996 (08.08.1996), see the entire document.	1-17
A, P	US 6,664,298 B1 (REINHART et al) 16 December 2003 (16.12.2003), see the entire document.	1-17
A	US 4,637,990 A (TOROBIN) 20 January 1987 (20.01.1987), see the entire document.	1-17
A	US 3,674,461 A (FARNAND ET AL) 04 July 1972 (04.07.1972), see the entire document.	1-17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Date of the actual completion of the international search

22 November 2004 (22.11.2004)

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